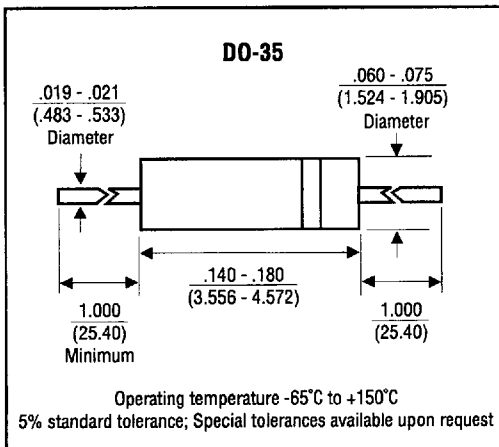


# TC ZENER DIODES

250mW

| Part #  | Nominal Zener Voltage | Test Current  | Maximum Dynamic Impedance        | Voltage Temperature Stability | Temperature Range  | Typical Temperature Coefficient |
|---------|-----------------------|---------------|----------------------------------|-------------------------------|--------------------|---------------------------------|
|         | $V_Z$ (V)             | $I_{ZT}$ (mA) | $Z_{ZT}$ @ $I_{ZT}$ ( $\Omega$ ) | $\Delta V_{ZT}$ maximum (mV)  | $^{\circ}\text{C}$ | $T_c$ (%/ $^{\circ}\text{C}$ )  |
| 1N4765  | 9.1                   | 0.5           | 350                              | 68                            | 0 to +75           | 0.01                            |
| 1N4765A | 9.1                   | 0.5           | 350                              | 141                           | -55 to +100        | 0.01                            |
| 1N4766  | 9.1                   | 0.5           | 350                              | 34                            | 0 to +75           | 0.005                           |
| 1N4766A | 9.1                   | 0.5           | 350                              | 70                            | -55 to +100        | 0.005                           |
| 1N4767  | 9.1                   | 0.5           | 350                              | 14                            | 0 to +75           | 0.002                           |
| 1N4767A | 9.1                   | 0.5           | 350                              | 28                            | -55/+100           | 0.002                           |
| 1N4768  | 9.1                   | 0.5           | 350                              | 7                             | 0 to +75           | 0.001                           |
| 1N4768A | 9.1                   | 0.5           | 350                              | 14                            | -55/+100           | 0.001                           |
| 1N4769  | 9.1                   | 0.5           | 350                              | 3                             | 0 to +75           | 0.005                           |
| 1N4769A | 9.1                   | 0.5           | 350                              | 7                             | -55/+100           | 0.005                           |
| 1N4770  | 9.1                   | 1.0           | 200                              | 68                            | 0 to +75           | 0.01                            |
| 1N4770A | 9.1                   | 1.0           | 200                              | 141                           | -55/+100           | 0.01                            |
| 1N4771  | 9.1                   | 1.0           | 200                              | 34                            | 0 to +75           | 0.005                           |
| 1N4771A | 9.1                   | 1.0           | 200                              | 70                            | -55/+100           | 0.005                           |
| 1N4772  | 9.1                   | 1.0           | 200                              | 14                            | 0 to +75           | 0.002                           |
| 1N4772A | 9.1                   | 1.0           | 200                              | 28                            | -55/+100           | 0.002                           |
| 1N4773  | 9.1                   | 1.0           | 200                              | 7                             | 0 to +75           | 0.001                           |
| 1N4773A | 9.1                   | 1.0           | 200                              | 14                            | -55/+100           | 0.001                           |
| 1N4774  | 9.1                   | 1.0           | 200                              | 3                             | 0 to +75           | 0.0005                          |
| 1N4774A | 9.1                   | 1.0           | 200                              | 7                             | -55/+100           | 0.0005                          |
| 1N4775  | 8.5                   | 0.5           | 200                              | 64                            | 0 to +75           | 0.01                            |
| 1N4775A | 8.5                   | 0.5           | 200                              | 132                           | -55/+100           | 0.01                            |
| 1N4776  | 8.5                   | 0.5           | 200                              | 32                            | 0 to +75           | 0.005                           |
| 1N4776A | 8.5                   | 0.5           | 200                              | 66                            | -55/+100           | 0.005                           |
| 1N4777  | 8.5                   | 0.5           | 200                              | 13                            | 0 to +75           | 0.002                           |
| 1N4777A | 8.5                   | 0.5           | 200                              | 26                            | -55/+100           | 0.002                           |
| 1N4778  | 8.5                   | 0.5           | 200                              | 6                             | 0 to +75           | 0.001                           |
| 1N4778A | 8.5                   | 0.5           | 200                              | 13                            | -55/+100           | 0.001                           |
| 1N4779  | 8.5                   | 0.5           | 200                              | 3                             | 0 to +75           | 0.0005                          |
| 1N4779A | 8.5                   | 0.5           | 200                              | 7                             | -55/+100           | 0.0005                          |
| 1N4780  | 8.5                   | 1.0           | 100                              | 64                            | 0 to +75           | 0.01                            |
| 1N4780A | 8.5                   | 1.0           | 100                              | 132                           | -55/+100           | 0.01                            |
| 1N4781  | 8.5                   | 1.0           | 100                              | 32                            | 0 to +75           | 0.005                           |
| 1N4781A | 8.5                   | 1.0           | 100                              | 66                            | -55/+100           | 0.005                           |
| 1N4782  | 8.5                   | 1.0           | 100                              | 13                            | 0 to +75           | 0.002                           |
| 1N4782A | 8.5                   | 1.0           | 100                              | 26                            | -55/+100           | 0.002                           |
| 1N4783  | 8.5                   | 1.0           | 100                              | 6                             | 0 to +75           | 0.001                           |
| 1N4783A | 8.5                   | 1.0           | 100                              | 13                            | -55/+100           | 0.001                           |
| 1N4784  | 8.5                   | 1.0           | 100                              | 3                             | 0 to +75           | 0.0005                          |
| 1N4784A | 8.5                   | 1.0           | 100                              | 7                             | -55/+100           | 0.0005                          |



# TC ZENER DIODES

## 250mW (cont.)

| Part # | Nominal Zener Voltage |      | Test Current         | Maximum Dynamic Impedance             | Voltage Temperature Stability | Temperature Range | Typical Temperature Coefficient |
|--------|-----------------------|------|----------------------|---------------------------------------|-------------------------------|-------------------|---------------------------------|
|        | Min.                  | Max. |                      |                                       |                               |                   |                                 |
|        | V <sub>Z</sub> (V)    |      | I <sub>ZT</sub> (mA) | Z <sub>ZT</sub> @ I <sub>ZT</sub> (Ω) | ΔV <sub>ZT</sub> maximum (mV) | °C                | T <sub>C</sub> (%/°C)           |
| 1N821  | 5.9                   | 6.5  | 7.5                  | 15                                    | 96                            | -55/+100          | .01                             |
| 1N821A | 5.9                   | 6.5  | 7.5                  | 10                                    | 96                            | -55/+100          | .01                             |
| 1N823  | 5.9                   | 6.5  | 7.5                  | 15                                    | 48                            | -55/+100          | .005                            |
| 1N823A | 5.9                   | 6.5  | 7.5                  | 10                                    | 48                            | -55/+100          | .005                            |
| 1N825  | 5.9                   | 6.5  | 7.5                  | 15                                    | 19                            | -55/+100          | .002                            |
| 1N825A | 5.9                   | 6.5  | 7.5                  | 10                                    | 19                            | -55/+100          | .002                            |
| 1N827  | 5.9                   | 6.5  | 7.5                  | 15                                    | 9                             | -55/+100          | .001                            |
| 1N827A | 5.9                   | 6.5  | 7.5                  | 10                                    | 9                             | -55/+100          | .001                            |
| 1N829  | 5.9                   | 6.5  | 7.5                  | 15                                    | 5                             | -55/+100          | .0005                           |
| 1N829A | 5.9                   | 6.5  | 7.5                  | 10                                    | 5                             | -55/+100          | .0005                           |

## 400mW & 500mW

| Part #  | Nominal Zener Voltage |      | Test Current         | Maximum Dynamic Impedance         | Voltage Temperature Stability | Temperature Range | Typical Temperature Coefficient |
|---------|-----------------------|------|----------------------|-----------------------------------|-------------------------------|-------------------|---------------------------------|
|         | Min.                  | Max. |                      |                                   |                               |                   |                                 |
|         | V <sub>Z</sub> (V)    |      | I <sub>ZT</sub> (mA) | Z <sub>ZT</sub> @ I <sub>ZT</sub> | ΔV <sub>ZT</sub> (mV)         | °C                | T <sub>C</sub> (%/°C)           |
| 1N4565  | 6.4                   | 6.5  | 0.5                  | 200                               | 48                            | 0/+75             | .01                             |
| 1N4565A | 6.4                   | 6.5  | 0.5                  | 200                               | 99                            | -55/+100          | .01                             |
| 1N4566  | 6.4                   | 6.5  | 0.5                  | 200                               | 24                            | 0/+75             | .005                            |
| 1N4566A | 6.4                   | 6.5  | 0.5                  | 200                               | 50                            | -55/+100          | .005                            |
| 1N4567  | 6.4                   | 6.5  | 0.5                  | 200                               | 9.6                           | 0/+75             | .002                            |
| 1N4567A | 6.4                   | 6.5  | 0.5                  | 200                               | 20                            | -55/+100          | .002                            |
| 1N4568  | 6.4                   | 6.5  | 0.5                  | 200                               | 4.8                           | 0/+75             | .001                            |
| 1N4568A | 6.4                   | 6.5  | 0.5                  | 200                               | 9.9                           | -55/+100          | .001                            |
| 1N4569  | 6.4                   | 6.5  | 0.5                  | 200                               | 2.4                           | 0/+75             | .0005                           |
| 1N4569A | 6.4                   | 6.5  | 0.5                  | 200                               | 5.0                           | -55/+100          | .0005                           |
| 1N4570  | 6.4                   | 6.5  | 1.0                  | 100                               | 48                            | 0/+75             | .01                             |
| 1N4570A | 6.4                   | 6.5  | 1.0                  | 100                               | 99                            | -55/+100          | .01                             |
| 1N4571  | 6.4                   | 6.5  | 1.0                  | 100                               | 24                            | 0/+75             | .005                            |
| 1N4571A | 6.4                   | 6.5  | 1.0                  | 100                               | 50                            | -55/+100          | .005                            |
| 1N4572  | 6.4                   | 6.5  | 1.0                  | 100                               | 9.6                           | 0/+75             | .002                            |
| 1N4572A | 6.4                   | 6.5  | 1.0                  | 100                               | 20                            | -55/+100          | .002                            |
| 1N4573  | 6.4                   | 6.5  | 1.0                  | 100                               | 4.8                           | 0/+75             | .001                            |
| 1N4573A | 6.4                   | 6.5  | 1.0                  | 100                               | 9.9                           | -55/+100          | .001                            |
| 1N4574  | 6.4                   | 6.5  | 1.0                  | 100                               | 2.4                           | 0/+75             | .0005                           |
| 1N4574A | 6.4                   | 6.5  | 1.0                  | 100                               | 5.0                           | -55/+100          | .0005                           |
| 1N4575  | 6.4                   | 6.5  | 2.0                  | 50                                | 48                            | 0/+75             | .01                             |
| 1N4575A | 6.4                   | 6.5  | 2.0                  | 50                                | 99                            | -55/+100          | .01                             |
| 1N4576  | 6.4                   | 6.5  | 2.0                  | 50                                | 24                            | 0/+75             | .005                            |
| 1N4576A | 6.4                   | 6.5  | 2.0                  | 50                                | 50                            | -55/+100          | .005                            |
| 1N4577  | 6.4                   | 6.5  | 2.0                  | 50                                | 9.6                           | 0/+75             | .002                            |
| 1N4577A | 6.4                   | 6.5  | 2.0                  | 50                                | 20                            | -55/+100          | .002                            |
| 1N4578  | 6.4                   | 6.5  | 2.0                  | 50                                | 4.8                           | 0/+75             | .001                            |
| 1N4578A | 6.4                   | 6.5  | 2.0                  | 50                                | 9.9                           | -55/+100          | .001                            |
| 1N4579  | 6.4                   | 6.5  | 2.0                  | 50                                | 2.4                           | 0/+75             | .0005                           |
| 1N4579A | 6.4                   | 6.5  | 2.0                  | 50                                | 5.0                           | -55/+100          | .0005                           |
| 1N4580  | 6.4                   | 6.5  | 4.0                  | 25                                | 48                            | 0/+75             | .01                             |
| 1N4580A | 6.4                   | 6.5  | 4.0                  | 25                                | 99                            | -55/+100          | .01                             |
| 1N4581  | 6.4                   | 6.5  | 4.0                  | 25                                | 24                            | 0/+75             | .005                            |
| 1N4581A | 6.4                   | 6.5  | 4.0                  | 25                                | 50                            | -55/+100          | .005                            |
| 1N4582  | 6.4                   | 6.5  | 4.0                  | 25                                | 9.6                           | 0/+75             | .002                            |
| 1N4582A | 6.4                   | 6.5  | 4.0                  | 25                                | 20                            | -55/+100          | .002                            |
| 1N4583  | 6.4                   | 6.5  | 4.0                  | 25                                | 4.8                           | 0/+75             | .001                            |
| 1N4583A | 6.4                   | 6.5  | 4.0                  | 25                                | 9.9                           | -55/+100          | .001                            |
| 1N4584  | 6.4                   | 6.5  | 4.0                  | 25                                | 2.4                           | 0/+75             | .0005                           |
| 1N4584A | 6.4                   | 6.5  | 4.0                  | 25                                | 5.0                           | -55/+100          | .0005                           |



**CALL US AT 617-592-6090  
OR FAX US AT 617-592-0677**

# TC ZENER DIODES

400mW & 500mW (cont.)

| Part #  | Zener Voltage |       | Test Current  | Maximum Dynamic Impedance      | Voltage Temperature Stability | Temperature Range  | Typical Temperature Coefficient |
|---------|---------------|-------|---------------|--------------------------------|-------------------------------|--------------------|---------------------------------|
|         | Min.          | Max.  |               |                                |                               |                    |                                 |
|         | $V_Z$ (V)     |       | $I_{ZT}$ (mA) | $Z_{ZT} @ I_{ZT}$ ( $\Omega$ ) | $\Delta V_{ZT}$ (mV)          | $^{\circ}\text{C}$ | $T_c$ (%/ $^{\circ}\text{C}$ )  |
| 1N3154  | 8.0           | 8.8   | 10            | 15                             | 130                           | -55/+100           | .01                             |
| 1N3154A | 8.0           | 8.8   | 10            | 15                             | 172                           | -55/+150           | .01                             |
| 1N3155  | 8.0           | 8.8   | 10            | 15                             | 65                            | -55/+100           | .005                            |
| 1N3155A | 8.0           | 8.8   | 10            | 15                             | 86                            | -55/+150           | .005                            |
| 1N3156  | 8.0           | 8.8   | 10            | 15                             | 26                            | -55/+100           | .002                            |
| 1N3156A | 8.0           | 8.8   | 10            | 15                             | 34                            | -55/+150           | .002                            |
| 1N3157  | 8.0           | 8.8   | 10            | 15                             | 13                            | -55/+100           | .001                            |
| 1N3157A | 8.0           | 8.8   | 10            | 15                             | 17                            | -55/+150           | .001                            |
| 1N935   | 8.55          | 9.45  | 7.5           | 20                             | 67                            | 0/+75              | 0.01                            |
| 1N935A  | 8.55          | 9.45  | 7.5           | 20                             | 139                           | -55/+100           | 0.01                            |
| 1N935B  | 8.55          | 9.45  | 7.5           | 20                             | 184                           | -55/+150           | 0.01                            |
| 1N936   | 8.55          | 9.45  | 7.5           | 20                             | 33                            | 0/+75              | 0.005                           |
| 1N936A  | 8.55          | 9.45  | 7.5           | 20                             | 69                            | -55/+100           | 0.005                           |
| 1N936B  | 8.55          | 9.45  | 7.5           | 20                             | 92                            | -55/+150           | 0.005                           |
| 1N937   | 8.55          | 9.45  | 7.5           | 20                             | 13                            | 0/+75              | 0.002                           |
| 1N937A  | 8.55          | 9.45  | 7.5           | 20                             | 27                            | -55/+100           | 0.002                           |
| 1N937B  | 8.55          | 9.45  | 7.5           | 20                             | 37                            | -55/+150           | 0.002                           |
| 1N938   | 8.55          | 9.45  | 7.5           | 20                             | 6                             | 0/+75              | 0.001                           |
| 1N938A  | 8.55          | 9.45  | 7.5           | 20                             | 13                            | -55/+100           | 0.001                           |
| 1N938B  | 8.55          | 9.45  | 7.5           | 20                             | 18                            | -55/+150           | 0.001                           |
| 1N939   | 8.55          | 9.45  | 7.5           | 20                             | 3                             | 0/+75              | 0.0005                          |
| 1N939A  | 8.55          | 9.45  | 7.5           | 20                             | 7                             | -55/+100           | 0.0005                          |
| 1N939B  | 8.55          | 9.45  | 7.5           | 20                             | 9                             | -55/+150           | 0.0005                          |
| 1N940   | 8.55          | 9.45  | 7.5           | 20                             | 1.3                           | -0/+75             | 0.0002                          |
| 1N940A  | 8.55          | 9.45  | 7.5           | 20                             | 2.7                           | -55/+100           | 0.0002                          |
| 1N940B  | 8.55          | 9.45  | 7.5           | 20                             | 3.7                           | -55/+150           | 0.0002                          |
| 1N941   | 11.12         | 12.28 | 7.5           | 30                             | 88                            | 0/+75              | .01                             |
| 1N941A  | 11.12         | 12.28 | 7.5           | 30                             | 181                           | -55/+100           | .01                             |
| 1N941B  | 11.12         | 12.28 | 7.5           | 30                             | 239                           | -55/+150           | .01                             |
| 1N942   | 11.12         | 12.28 | 7.5           | 30                             | 44                            | 0/+75              | .005                            |
| 1N942A  | 11.12         | 12.28 | 7.5           | 30                             | 90                            | -55/+100           | .005                            |
| 1N942B  | 11.12         | 12.28 | 7.5           | 30                             | 120                           | -55/+150           | .005                            |
| 1N943   | 11.12         | 12.28 | 7.5           | 30                             | 18                            | 0/+75              | .002                            |
| 1N943A  | 11.12         | 12.28 | 7.5           | 30                             | 36                            | -55/+100           | .002                            |
| 1N943B  | 11.12         | 12.28 | 7.5           | 30                             | 47                            | -55/+150           | .002                            |
| 1N944   | 11.12         | 12.28 | 7.5           | 30                             | 9                             | 0/+75              | .001                            |
| 1N944A  | 11.12         | 12.28 | 7.5           | 30                             | 18                            | -55/+100           | .001                            |
| 1N944B  | 11.12         | 12.28 | 7.5           | 30                             | 24                            | -55/+150           | .001                            |
| 1N945   | 11.12         | 12.28 | 7.5           | 30                             | 4                             | 0/+75              | .0005                           |
| 1N945A  | 11.12         | 12.28 | 7.5           | 30                             | 9                             | -55/+100           | .0005                           |
| 1N945B  | 11.12         | 12.28 | 7.5           | 30                             | 12                            | -55/+150           | .0005                           |
| 1N946   | 11.12         | 12.28 | 7.5           | 30                             | 20                            | 0/+75              | .0005                           |
| 1N946A  | 11.12         | 12.28 | 7.5           | 30                             | 20                            | -55/+100           | .0005                           |
| 1N946B  | 11.12         | 12.28 | 7.5           | 30                             | 20                            | -55/+150           | .0005                           |
| 1N3496  | 5.9           | 6.5   | 7.5           | 15                             | 23                            | 0 to +75           | .005                            |
| 1N3497  | 5.9           | 6.5   | 7.5           | 15                             | 9                             | 0 to +75           | .002                            |
| 1N3498  | 5.9           | 6.5   | 7.5           | 15                             | 5                             | 0 to +75           | .001                            |
| 1N3499  | 5.9           | 6.5   | 7.5           | 15                             | 2                             | 0 to +75           | .0005                           |
| 1N3500  | 5.9           | 6.5   | 7.5           | 15                             | 47                            | 0 to +75           | .01                             |

